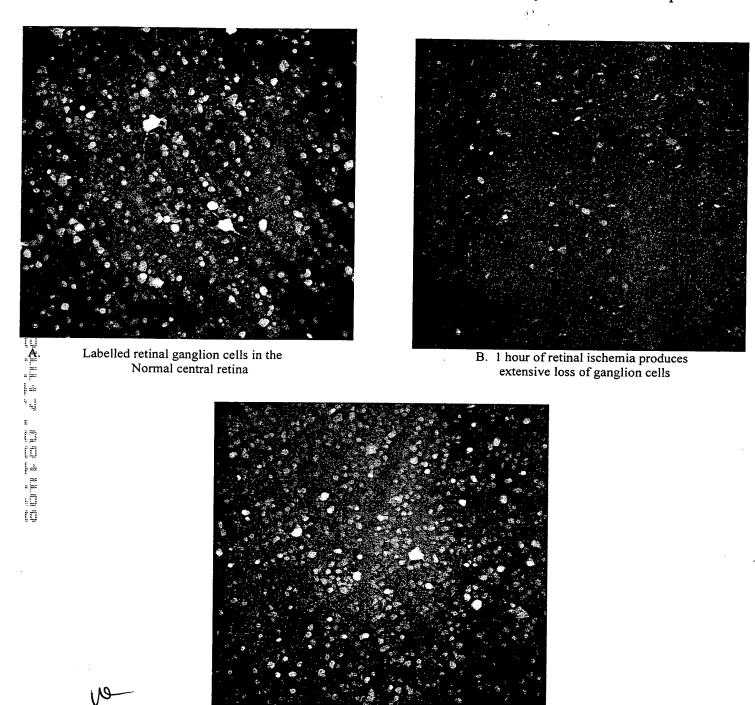
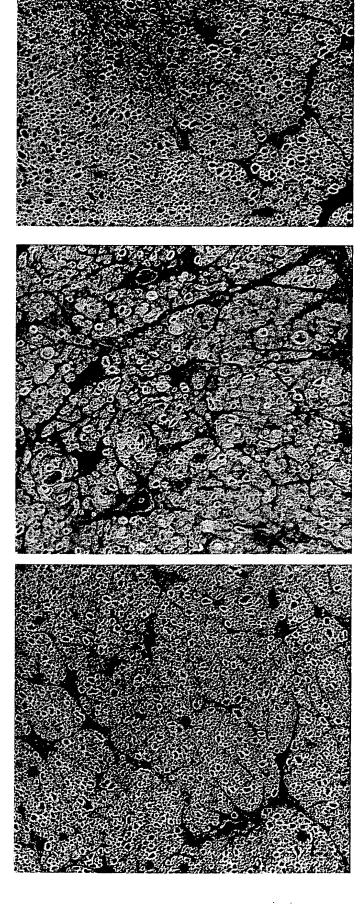
GPI 1046 protects ganglion cells against degeneration due to 1 hour of retinal ischemia Florogold labelled retinal ganglion cells in wholemount, 28 days after ischmic episode



GPI 1046 Protects retinal ganglion cell axons and prevents myelin degeneration in the optic nerve induced by 1 hour of complete retinal ischemia, toluidine blue stained optic nerve cross sections, 630X

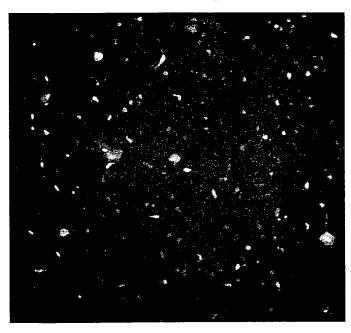


B. Vehicle treated optic nerve 28 days after 1 hour complete retinal ischemia

A. Normal optic nerve

C. GPI 1046 treated optic nerve 28 days after I hour complete retinal ischemia

GPI 1046 administration for 28 days provides only moderate protection of axotomized retinal ganglion cells



Florogold labelled RGCs 90 days following transection, Treatment with vehicle alone for 1st 28 days

Florogold labelled RGCs 90 days following transection, Treatment with GPI 1046 for 1st 28 days Treatment with vehicle alone for 1st 28 days

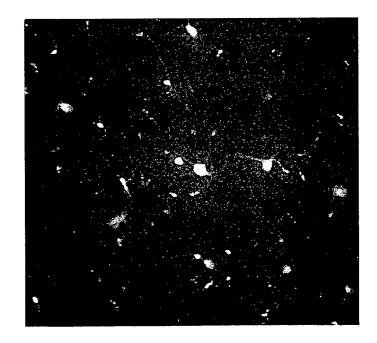
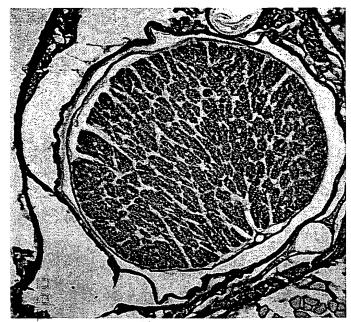


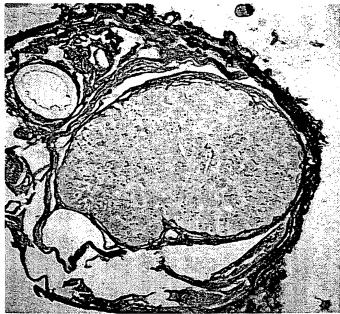
Figure 4

GPI 1046 prevents axonal degeneration in the proximal stump of the optic nerve RT97 neurofilament immunohistochemistry,

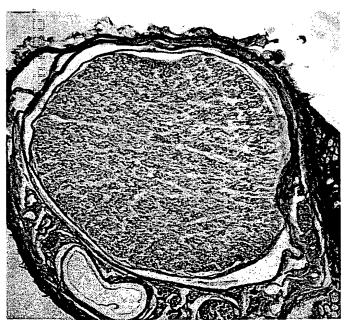
optic nerve cross sections, 90 days after complete transection



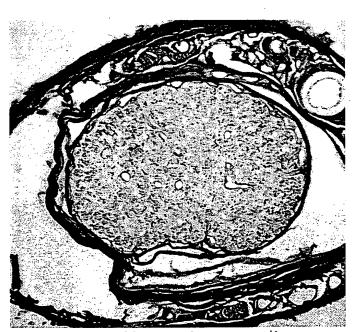
A. Sham



B. Optic nerve transection (ONT) 90 days survival



C. optic nerve 90 days after transection, GPI 1046 treatment days 1-28

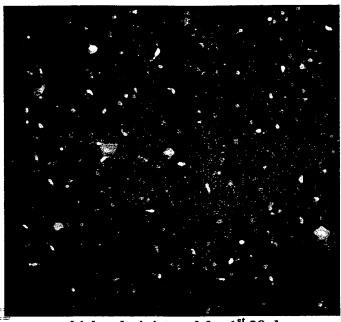


D. optic nerve 90 days after transection, GPI 1046 treatment days 1-14

Figure 5

GPI 1046 administration for 28 days provides only moderate protection of axotomized retinal ganglion cells

Florogold labelled retinal ganglion cells 90 days following transection

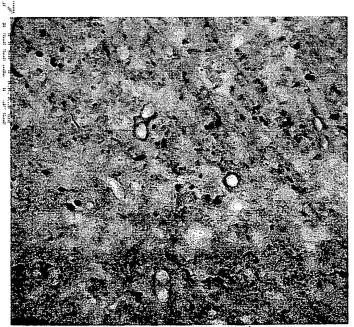


'vehicle administered for 1st 28 days

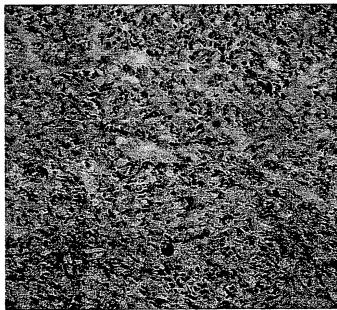
GPI 1046 administered for 1st 28 days

GPI 1046 administration for 28 days preserves optic nerve axons of surviving retinal ganglion cells

RT 97 neurofilament immunohistochemistry 90days after transection

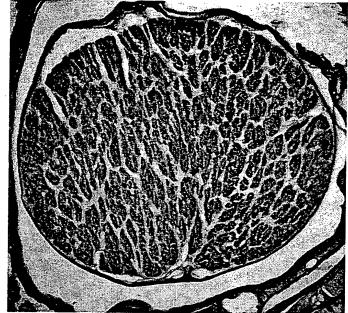


vehicle administered for 1st 28 days

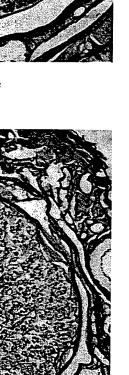


GPI 1046 administered for 1st 28 days

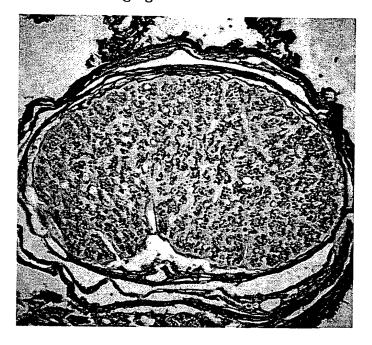
Preservation of myelin in the proximal stump of the optic nerve 90 days after transection 14 vs 28 days treatment with GPI 1046 10mg/kg s.c.



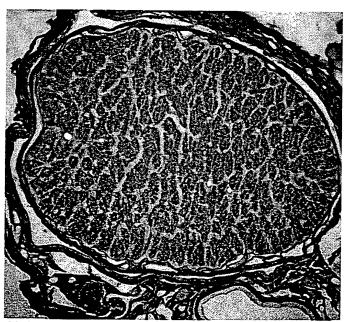
Normal(sham) Optic nerve



90 days after optic nerve transection, 14 days GPI 1046



90 days after optic nerve transection, vehicle treated



90 days after optic nerve transection, 28 days GPI 1046

myelin basic protein immunohistochemistry (SMI-94), 20X

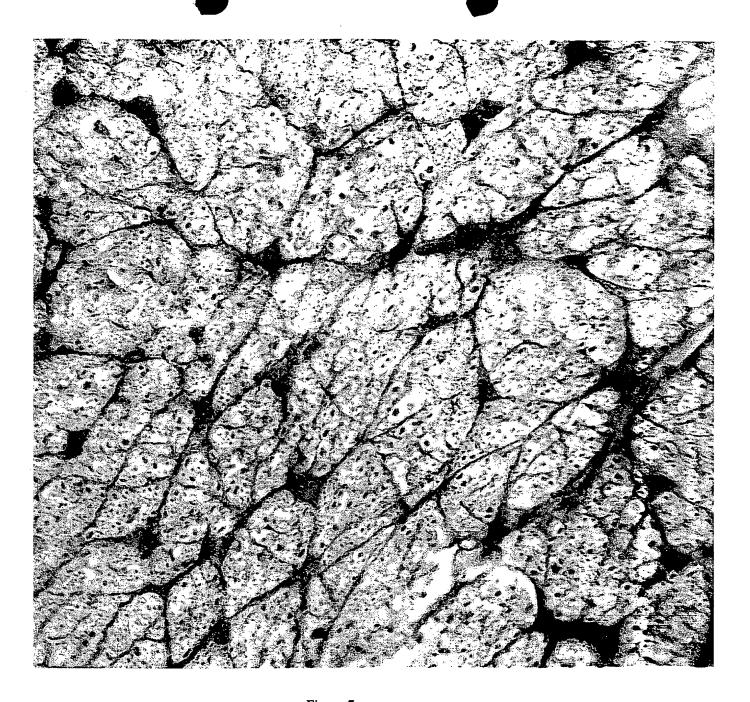
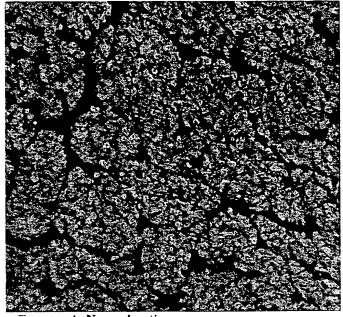


Figure 7
FKBP-12 immunohistochemistry labels oligodendroglia and axons in the normal optic nerve

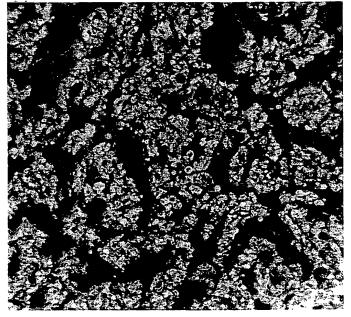




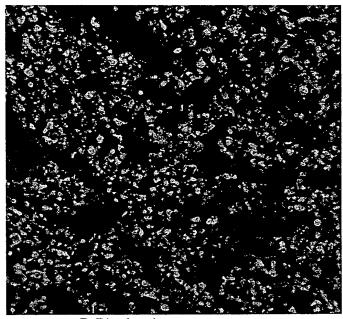
GPI 1046 treatment prevents myelin degeneration in the distal stump of the optic nerve Myelin basic protein immunohistochemistry 90 days after transection



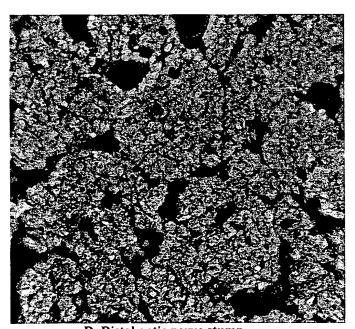
A. Normal optic nerve



C. Distal optic nerve stump 90 days after complete transection GPI 1046 administered 1-14 days after transection



B. Distal optic nerve stump 90 days after complete transection



D. Distal optic nerve stump 90 days after complete transection GPI 1046 administered 1-28 days after transection



Figure 9

GPI 1046 decreases neovascularization and prevents neuronal loss in the inner retinal in the Streptozotocin model of diabetic retinopathy

A. Normal retina
Cross section
Cresyl violet

Outer Nuclear layer (ONL)

Inner Nuclear layer(INL)

Ganglion cell layer (GCL)

B. retina from Streptozotocin /vehicle case

ONL

INL

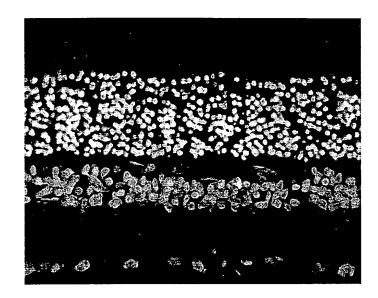
GCL

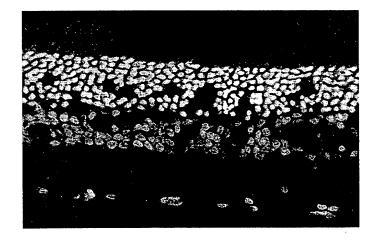
C. Retina from Streptozotocin /GPI 1046 case

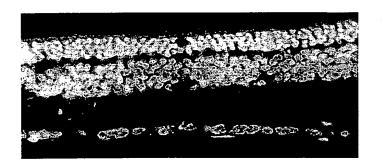
ONL

INL

GCL







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